

## **ABSTRACT**

The present invention provides an apparatus for deep rolling an elongate workpiece such as a crankshaft or a camshaft. the apparatus includes upper and lower tools. At least one of the upper and lower tools includes a tool housing with a shaft extending therein. A roller is arranged about the shaft and rotatively supported thereon. At least one work roll rotates against the shaft, and is retained by first and second cage members secured to the housing.